MATERIAL SAFETY DATA SHEET

Product Name: Schultz® TakeRoot™ Rooting Hormone

Section 1 - MATERIAL IDENTIFICATION

Checmical Name: Indole 3-butyric Acid

Trade Name: Schultz® TakeRoot™ Rooting Hormone

Synonyms: None.

EPA Reg. # 69916-1-39609

Chemical Classification: Butyrate

Intended Uses: Root growth promotant

Section 2 - PRINCIPAL HAZARDOUS COMPONENT(S)

Component	Molecular Formula	Molecular Wt.	CAS#	Percent (%)
Indole 3-butyric aced	12137	203.23	133-32-4	0.1
Tale (non-asbestiform)		n/a	14807-96-6	99.9

n/a

Section 3 - PHYSICAL PROPERTY DATA

Appearance Grayish-white, fine powder Odor/threshold level (ppm) Slight odor **Boiling Point** n/a Freezing Point Melting Range n/a п/a pH Solubility in water п⁄а Insoluble Specific gravity (water=1) Vapor density (air=1) n/a π/a Vapor pressure (mm Hg@ °C/°F) n/a Volatile components (% w/w)

Schultz® TakeRoot™, page 2 of 4

Section 4 - FIRE AND EXPLOSION HAZARD DATA

Flash point (°C/°F) n/a Flash point test method n/a Autoignition temperature (°C/°F) n/a Flammable limits - LEL - (%) n/a - UEL - (%) n/a Extinguishing media π/a

Firefighters should wear self-contained Special firefighting procedures

breathing apparatuses and full protective equipment.

None known.

Fire and explosion hazards Hazardous decomposition products

resulting from fire

None known

Section 5 - REACTIVITY DATA

Stability

Skin contact

Storage conditions to avoid Incompatibilities (materials to avoid)

Hazardons polymerizations

Stable under normal conditions of use & storage.

None known. None known.

Section 6 - EMERGENCY AND FIRST AID PROCEDURES

Flush thoroughly with plenty of water for at least Eye contact

None.

five minutes. Get medical attention if irritation

occurs or persists.

Flush thoroughly with plenty of water and wash contact area with soap and water. If skin

is irritated, contact a physician. Remove contaminated

clothing and wash before reuse.

If inhalation of material is excessive, get to fresh Inhalation

air. If discomfort occurs or persists, get medical attention. If large quantities are ingested, drink plenty of water and get immediate medical attention.

Medical conditions

No data avaiable. May aggravate pre-existing aggravated by exposure

long dysfunction.

Schultz® TakeRoot™, page 3 of 4

Section 7 - HELATH HAZARD DATA

Component	OSHA Permissable Exposure Limit (PEL)	ACGIH - 1988-89 Threshold Limit Value	Exposure Control Limit (ECL)
Indole 3-butyric acid	Not established.	Not established.	Not established.
Talc (non-asbestiform)			*2mg/m ³
(*Respirable dust, no	n-asbestiform tales of less the	an 1% free silicon)	

Carcinogen designation

Not listed with NTP, IARC, and OSHA.

Effects of acute exposure

Eye contact Skin contact Inhalation Direct contact with eyes may cause irritation. Direct contact with skin may cause irritation. Ingestion of large amounts may cause gasto-intestinal irritation and nausea. Large doses of 3-butyric acid given to animals have caused depression, labored breathing, cyanosis (purple coloring of the skin due to oxygen deficiency), and loss of muscular coordination.

Effects of chronic exposure

Long-term, excessive exposure to dust may cause lung damage.

Section 8 - SPILL/LEAK/DISPOSAL PROCEDURES

Steps to be taken in case materials are released

Immediately contact emergency response personnel. Keep unnecessary persons away. If emergency response personnel are unavailable, vacuum, shovel or sweep up spilled material and place in an appropriate container for disposal. Use suitable protective equipment (Section 9). Follow all fire prevention procedures (Section 1).

Avoid contact of spilled materials and runoff with soil and surface waterways. Dispose of or treat all spill residues including contaminated soils following all federal, state and local regulations.

Schultz® TakeRoot™, page 4 of 4

Section 9 - SPECIAL PROTECTION INFORMATION

Respiratory If use results in high dust conditions, an MSHA-

N1OSH approved respirator for dusts is recommended.

Hands/Arms - Impervious goggles

Eyes/Face Safety goggles.

Ventilation Local exhaust is recommended in dusty conditions.

Proper ventilation should be maintained to keep

dust exposure below TLV for talc.

Section 10 - SPECIAL PRECAUTIONS

Special precautions to be taken when:

--Handling and storing, etc. Store in a cool, dry place. Avoid contact with eyes

and skin. Do not breathe dust. Do not ingest.

Wash thoroughly after use.

-Other Keep container closed when not in use.

Keep out of reach of children and pets.

Section 11 - BASIC TRANSPORTATION DESCRIPTION

Shipping requirements Chemicals N.O.L.

NMFC Number 48940 Sub 2

Section 12 - MSDS PREPARATION

Schultz Company 13260 Corporate Exchange Dr. Bridgeton, MO 63044-3720 (314) 298-2700

August 1999

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling producedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use.

revised 4/00